

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): ~~A digital camera that fits~~ An apparatus to fit within ~~the a~~ film cavity of a non-digital camera comprising:

a circuit board;

a light detector located on the circuit board ~~for detecting~~ to detect light due to the opening of ~~the a~~ shutter aperture of the non-digital camera; and

an imager located on the circuit board and coupled to the light detector and located adjacent to the shutter aperture of the non-digital camera, said imager ~~sensing~~ to sense radiated energy reflective of ~~the an~~ image received through a lens and shutter aperture of the non-digital camera when the light detector detects light due to the opening of the shutter aperture of the non-digital camera, said imager to generate ~~generating~~ signals reflective of the image.

Claim 2 (currently amended): The ~~digital-camera~~ apparatus as set forth in claim 1, further comprising a memory ~~for storing~~ to store digital data reflective of the image.

Claim 3 (currently amended): The ~~digital-camera~~ apparatus as set forth in claim 1, further comprising a passgate coupled to the light detector located between the imager and a clock input to the imager, said passgate controlled by the light detector such that when the light detector detects light due to the opening of the shutter aperture of the non-digital camera, the passgate is switched to permit clock signals to reach the imager to driver the imager to output signals reflective of the image.

Claim 4 (currently amended): The ~~digital-camera~~ apparatus as set forth in claim 1, wherein the light detector ~~controls~~ to control power to the imager such that when the light detector detects light due to the opening of the shutter aperture of the non-digital camera, power is supplied to the imager to generate signals reflective of the image.

Claim 5 (currently amended): The ~~digital-camera~~ apparatus as set forth in claim 1, further comprising a passgate coupled to an ~~wherein the light detector controls the output from~~ of the

imager such that when the light detector detects light due to the opening of the shutter aperture of the non-digital camera, output signals reflective of the image are output from the imager.

Claim 6 (currently amended): The ~~digital camera~~ apparatus as set forth in claim 1, further comprising ~~circuitry for performing a signal processing processor coupled to receive on the~~ signals output by the imager.

Claim 7 (currently amended): The ~~digital camera~~ apparatus as set forth in claim 1, further comprising at least one output port for outputting image data from the digital camera to an external device.

Claim 8 (currently amended): The ~~digital camera~~ apparatus as set forth in claim ~~[[6]]~~ 7, wherein the output port comprises a wireless transmitter for transmitting image data to a wireless receiver of an external device.

Claims 9-10 (cancel)

Claim 11 (currently amended): The ~~digital camera~~ apparatus as set forth in claim 6, wherein the output port couples to a monitor, said ~~digital camera~~ apparatus further comprising analog driver circuitry ~~that drives to drive~~ the monitor to display the image on the monitor.

Claims 12-14 (cancel)

Claim 15 (currently amended): The ~~digital camera~~ apparatus as set forth in claim ~~[[6]]~~ 7, wherein the output port couples to the internet.

Claims 16-17 (cancel)

Claim 18 (currently amended): A method for generating digital images using a non-digital image camera comprising ~~the steps of:~~

specifying an image to be recorded by actuating ~~the~~ a shutter aperture of the non-digital camera, the actuation of the shutter aperture opening the shutter aperture;

controlling a shutter of a photocard located in a film cavity of the non-digital camera to permit light reflective of the image to be received on an imager of the photocard; ~~in a film cavity of the non-digital camera~~;

~~locating an imager and a light detector in the film cavity of the non-digital camera, said light detector~~;

controlling the imager of the photocard to output ~~such that the imager outputs signals~~ reflective of the image sensed ~~when the light detector detects light due to~~ based on the opening of the shutter aperture of the non-digital camera and the shutter of the photocard;

~~said imager outputting signals reflective of a digital image sensed.~~

Claim 19 (currently amended): The method as set forth in claim ~~[[17]]~~ 18, further comprising ~~the step of~~ translating the signals to digital data, said digital data reflective of the digital image sensed.

Claim 20 (cancel)

Claim 21 (currently amended): The method as set forth in claim ~~[[17]]~~ 18, further comprising ~~the step of~~ storing in memory representations of the signals reflective of the image sensed.

Claim 22 (currently amended): The method as set forth in claim ~~[[17]]~~ 18, further comprising ~~the step of~~ processing on the photocard the signals reflective of the image sensed to modify the image.

Claim 23 (currently amended): The method as set forth in claim ~~[[17]]~~ 18, further comprising ~~the step of~~ outputting the signals reflective of the image sensed to an external device.

Claim 24 (currently amended): The method as set forth in claim ~~[[22]]~~ 23, wherein the external device is a display device and ~~the step of~~ outputting comprises generating ~~[[a]]~~ analog signals to drive the display device in order to display the image.

Claims 25-26 (cancel)

Claim 27 (currently amended): The method as set forth in claim ~~[[22]]~~ 23, wherein the external device is a system that provides a connection to the internet.

Claims 28-29 (cancel)

Claim 30 (new): The apparatus of claim 1, further comprising an imager shutter separate from the shutter aperture of the non-digital camera.

Claim 31 (new): The apparatus of claim 30, further comprising a controller to control the imager shutter independently of the shutter aperture of the non-digital camera.

Claim 32 (new): The apparatus of claim 6, further comprising a single integrated circuit comprising the light detector, the imager, and the signal processor.

Claim 33 (new): The apparatus of claim 32, wherein the single integrated circuit comprises a complementary metal oxide semiconductor (CMOS) device.

Claim 34 (new): The apparatus of claim 2, further comprising a counter to provide an image count to the memory for storage in association with the digital data.

Claim 35 (new): The apparatus of claim 34, wherein the light detector to generate a signal to increment the counter upon detection of light.

Claim 36 (new): The apparatus of claim 1, further comprising a remote control to provide control signals to control operation of the apparatus.

Claim 37 (new): The apparatus of claim 1, further comprising a rail mechanism to adjustably couple the circuit board into the non-digital camera.

Claim 38 (new): The method of claim 18, further comprising controlling the shutter of the photocard to operate faster than the shutter aperture of the non-digital camera.

Claim 39 (new): An apparatus comprising:
a photocard for insertion into a non-digital camera, the photocard including an integrated circuit comprising:

an imager to capture images through a shutter aperture of the non-digital camera;
a processor to process the images; and
a memory to store the images.

Claim 40 (new): The apparatus of claim 39, wherein the integrated circuit comprises a complementary metal oxide semiconductor (CMOS) integrated circuit.

Claim 41 (new): The apparatus of claim 39, further comprising an imager shutter separate from the shutter aperture of the non-digital camera.

Claim 42 (new): The apparatus of claim 39, further comprising a second memory coupled to the integrated circuit.

Claim 43 (new): The apparatus of claim 39, wherein the integrated circuit comprises circuitry to generate an analog output to drive a monitor.